

## PATENT ABSTRACTS OF JAPAN

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## (54) FILMY RAW MATERIAL

## (57)Abstract:

**PURPOSE:** To obtain a functional filmy raw material having excellent mechanical strength and dimensional stability and suitable for the treatment of various liquid and gas, by uniformly attaching and integrating a perfluorinated ion exchange resin to a porous film of polytetrafluoroethylene.

**CONSTITUTION:** A perfluorinated ion exchange resin is uniformly attached and integrated to a porous film of polytetrafluoroethylene e.g. by impregnating perfluorinated ion exchange resin liquid in a porous film of polytetrafluoroethylene (having a porosity of  $\geq 35\%$ , especially  $\geq 40\%$ ). The weight ratio of impregnated ion exchange resin to the porous film is 3W90%, especially 10W30%. The whole film can be imparted with hydrophilic property or both hydrophobic and hydrophilic properties by proper selection of the production process.